

SEQUENCE LISTING

<110> SCHNEIDER, ARMIN  
SCHAEBITZ, WOLF-RUEDIGER  
KOLLMAR, RAINER  
SCHWAB, STEFAN

<120> METHODS OF TREATING NEUROLOGICAL CONDITIONS WITH HEMATOPOEITIC GROWTH FACTORS

<130> 229530US

<160> 41

<170> PatentIn version 3.1

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<222> (69)..(69)

<223> Xaa is any amino acid

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Xaa  
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Val Ile Met Xaa Trp Xaa  
35 40 45

Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Phe Xaa Xaa  
50 55 60

Val Ile Leu Met Xaa Trp  
65 70

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<400> 3  
cgaagctc ag cttgatccag g 21

<210> 4  
<211> 280  
<212> DNA  
<213> Rattus rattus

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gcaccatc ag cccaaactgc agcaaactgg accgacagcc aaagatccta tggagactgc  
aagatgaacc aaaccagc ct gggacagac agcatcac ct gcctgacggg tcccaggagt 120  
ccatcatc ac tctgcctcat ctgaactaca ctcaggc tt cctttctgc ttggtgccat 180  
ggaacaac ag cttccagg tc ctggatcaag ctgagttcg 240  
280

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ccattgtcca tcttggggat c

21

<210> 8

<211> 21

<212> DNA

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<223> synthetic DNA

<400> 8

cctggaagct gttgttccat g

21

<210> 9

<211> 20

<212> DNA

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<400> 9

accccaccgt gttcttcgac

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<210> 10

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Leu Gly His Ser Leu Gly Ile  
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ctcggagacg ctgaggaagg acctg

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accccaccgt gttcttcgac 20

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catttgccat ggacaagatg 20

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acgtcggtgg ctcagttatg tc 22

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atttatgtca gagatggagg atgg

24

<210> 21  
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<213> Rattus rattus

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ctcacagggta atcccgccctc cgctgggacc aattgacatc acggacagga ataccgc 120  
ctgtggccct gatgggcagg tcctgcctgg ctccccatcct ccatctctga cataaaat 177

<210> 22  
<211> 400  
<212> PRT  
<213> Homo sapiens

<400> 22  
Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro  
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Ala Phe Leu Leu Ile Pro Glu Lys Ser Asp Leu Arg Thr Val Ala Pro  
20 25 30

Ala Ser Ser Leu Asn Val Arg Phe Asp Ser Arg Thr Met Asn Leu Ser  
35 40 45

Trp Asp Cys Gln Glu Asn Thr Thr Phe Ser Lys Cys Phe Leu Thr Asp  
50 55 60

Lys Lys Asn Arg Val Val Glu Pro Arg Leu Ser Asn Asn Glu Cys Ser  
65 70 75 80

Cys Thr Phe Arg Glu Ile Cys Leu His Glu Gly Val Thr Phe Glu Val  
85 90 95

His Val Asn Thr Ser Gln Arg Gly Phe Gln Gln Lys Leu Leu Tyr Pro  
100 105 110

Asn Ser Gly Arg Glu Gly Thr Ala Ala Gln Asn Phe Ser Cys Phe Ile  
115 120 125

Tyr Asn Ala Asp Leu Met Asn Cys Thr Trp Ala Arg Gly Pro Thr Ala  
130 135 140

Pro Arg Asp Val Gln Tyr Phe Leu Tyr Ile Arg Asn Ser Lys Arg Arg  
145 150 155 160

Arg Glu Ile Arg Cys Pro Tyr Tyr Ile Gln Asp Ser Gly Thr His Val  
165 170 175

Gly Cys His Leu Asp Asn Leu Ser Gly Leu Thr Ser Arg Asn Tyr Phe  
180 185 190

Leu Val Asn Gly Thr Ser Arg Glu Ile Gly Ile Gln Phe Phe Asp Ser  
195 200 205

Leu Leu Asp Thr Lys Lys Ile Glu Arg Phe Asn Pro Pro Ser Asn Val  
210 215 220

Thr Val Arg Cys Asn Thr Thr His Cys Leu Val Arg Trp Lys Gln Pro  
225 230 235 240

Arg Thr Tyr Gln Lys Leu Ser Tyr Leu Asp Phe Gln Tyr Gln Leu Asp  
245 250 255

Val His Arg Lys Asn Thr Gln Pro Gly Thr Glu Asn Leu Leu Ile Asn  
260 265 270

Val Ser Gly Asp Leu Glu Asn Arg Tyr Asn Phe Pro Ser Ser Glu Pro  
275 280 285

Arg Ala Lys His Ser Val Lys Ile Arg Ala Ala Asp Val Arg Ile Leu  
290 295 300

Asn Trp Ser Ser Trp Ser Glu Ala Ile Glu Phe Gly Ser Asp Asp Gly  
305 310 315 320

Asn Leu Gly Ser Val Tyr Ile Tyr Val Leu Leu Ile Val Gly Thr Leu  
325 330 335

Val Cys Gly Ile Val Leu Gly Phe Leu Phe Lys Arg Phe Leu Arg Ile  
340 345 350

Gln Arg Leu Phe Pro Pro Val Pro Gln Ile Lys Asp Lys Leu Asn Asp

355

360

365

Asn His Glu Val Glu Asp Glu Ile Ile Trp Glu Glu Phe Thr Pro Glu  
370 375 380

Glu Gly Lys Gly Tyr Arg Glu Glu Val Leu Ile Val Lys Glu Ile Thr  
385 390 395 400

<210> 23  
<211> 388  
<212> PRT  
<213> Mus musculus

<400> 23

Met Thr Ser Ser His Ala Met Asn Ile Thr Pro Leu Ala Gln Leu Ala  
1 5 10 15

Leu Leu Phe Ser Thr Leu Leu Leu Pro Gly Thr Gln Ala Leu Leu Ala  
20 25 30

Pro Thr Thr Pro Asp Ala Gly Ser Ala Leu Asn Leu Thr Phe Asp Pro  
35 40 45

Trp Thr Arg Thr Leu Thr Trp Ala Cys Asp Thr Ala Ala Gly Asn Val  
50 55 60

Thr Val Thr Ser Cys Thr Val Thr Ser Arg Glu Ala Gly Ile His Arg  
65 70 75 80

Arg Val Ser Pro Phe Gly Cys Arg Cys Trp Phe Arg Arg Met Met Ala  
85 90 95

Leu His His Gly Val Thr Leu Asp Val Asn Gly Thr Val Gly Gly Ala  
100 105 110

Ala Ala His Trp Arg Leu Ser Phe Val Asn Glu Ser Ala Ala Gly Ser  
115 120 125

Gly Ala Glu Asn Leu Thr Cys Glu Ile Arg Ala Ala Arg Phe Leu Ser  
130 135 140

Cys Ala Trp Arg Glu Gly Pro Ala Ala Pro Ala Asp Val Arg Tyr Ser  
145 150 155 160

Leu Arg Val Leu Asn Ser Thr Gly His Asp Val Ala Arg Cys Met Ala  
165 170 175

Asp Pro Gly Asp Asp Val Ile Thr Gln Cys Ile Ala Asn Asp Leu Ser  
180 185 190

Leu Leu Gly Ser Glu Ala Tyr Leu Val Val Thr Gly Arg Ser Gly Ala  
195 200 205

Gly Pro Val Arg Phe Leu Asp Asp Val Val Ala Thr Lys Ala Leu Glu  
210 215 220

Arg Leu Gly Pro Pro Arg Asp Val Thr Ala Ser Cys Asn Ser Ser His  
225 230 235 240

Cys Thr Val Ser Trp Ala Pro Pro Ser Thr Trp Ala Ser Leu Thr Ala  
245 250 255

Arg Asp Phe Gln Phe Glu Val Gln Trp Gln Ser Ala Glu Pro Gly Ser  
260 265 270

Thr Pro Arg Lys Val Leu Val Val Glu Glu Thr Arg Leu Ala Phe Pro  
275 280 285

Ser Pro Ala Pro His Gly Gly His Lys Val Lys Val Arg Ala Gly Asp  
290 295 300

Thr Arg Met Lys His Trp Gly Glu Trp Ser Pro Ala His Pro Leu Glu  
305 310 315 320

Ala Glu Asp Thr Arg Val Pro Gly Ala Leu Leu Tyr Ala Val Thr Ala  
325 330 335

Cys Ala Val Leu Leu Cys Ala Leu Ala Leu Gly Val Thr Cys Arg Arg  
340 345 350

Phe Glu Val Thr Arg Arg Leu Phe Pro Pro Ile Pro Gly Ile Arg Asp  
355 360 365

Lys Val Ser Asp Asp Val Arg Val Asn Pro Glu Thr Leu Arg Lys Asp  
370 375 380

Leu Leu Gln Pro  
385

<210> 24  
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<213> Rattus rattus

<400> 24

Ile Asn Ser Glu Arg Thr Ser Glu Gln  
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<210> 25  
<211> 127  
<212> PRT  
<213> Rattus rattus

<400> 25

Ala Pro Thr Arg Ser Pro Asn Pro Val Thr Arg Pro Trp Lys His Val  
1 5 10 15

Asp Ala Ile Lys Glu Ala Leu Ser Leu Leu Asn Asp Met Arg Ala Leu  
20 25 30

Glu Asn Glu Lys Asn Glu Asp Val Asp Ile Ile Ser Asn Glu Phe Ser  
35 40 45

Ile Gln Arg Pro Thr Cys Val Gln Thr Arg Leu Lys Leu Tyr Lys Gln  
50 55 60

Gly Leu Arg Gly Asn Leu Thr Lys Leu Asn Gly Ala Leu Thr Met Ile  
65 70 75 80

Ala Ser His Tyr Gln Thr Asn Cys Pro Pro Thr Pro Glu Thr Asp Cys  
85 90 95

Glu Ile Asp Val Thr Thr Phe Glu Asp Phe Ile Lys Asn Leu Lys Gly  
100 105 110

Phe Leu Phe Asp Ile Pro Phe Asp Cys Trp Lys Pro Val Gln Lys  
115 120 125

<210> 26  
<211> 141  
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<213> Mus musculus

<400> 26

Met Trp Leu Gln Asn Leu Arg Leu Lys Ile Phe Glu Gln Gly Leu Arg  
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Gly Asn Phe Thr Lys Leu Lys Gly Ala Leu Asn Met Thr Ala Ser Tyr  
20 25 30

Tyr Gln Thr Tyr Cys Pro Pro Thr Pro Glu Thr Asp Cys Glu Thr Gln  
35 40 45

Val Thr Thr Tyr Ala Asp Phe Ile Asp Ser Leu Lys Thr Leu Phe Leu  
50 55 60

Gly Ile Val Val Tyr Ser Leu Ser Ala Pro Thr Arg Ser Pro Ile Phe  
65 70 75 80

Leu Thr Asp Ile Pro Phe Glu Cys Lys Lys Pro Gly Gln Lys Thr Val  
85 90 95

Thr Arg Pro Trp Lys His Val Glu Ala Ile Lys Glu Ala Leu Asn Leu  
100 105 110

Leu Asp Asp Met Pro Val Thr Leu Asn Glu Glu Val Glu Val Val Ser  
115 120 125

Asn Glu Phe Ser Phe Lys Lys Leu Thr Cys Val Gln Thr  
130 135 140

<210> 27

<211> 144

<212> PRT

<213> Homo sapiens

<400> 27

Met Trp Leu Gln Ser Leu Leu Leu Gly Thr Val Ala Cys Ser Ile  
1 5 10 15

Ser Ala Pro Ala Arg Ser Pro Ser Pro Ser Thr Gln Pro Trp Glu His  
20 25 30

Val Asn Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp  
35 40 45

Thr Ala Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser Glu Met Phe  
50 55 60

Asp Leu Gln Glu Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys  
65 70 75 80

Gln Gly Leu Arg Gly Ser Leu Thr Lys Leu Lys Gly Pro Leu Thr Met  
85 90 95

Met Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro Glu Thr Ser  
100 105 110

Cys Ala Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu Asn Leu Lys  
115 120 125

Asp Phe Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro Val Gln Glu  
130 135 140

<210> 28  
<211> 207  
<212> PRT  
<213> Homo sapiens

<400> 28

Met Ala Gly Pro Ala Thr Gln Ser Pro Met Lys Leu Met Ala Leu Gln  
1 5 10 15

Leu Leu Leu Trp His Ser Ala Leu Trp Thr Val Gln Glu Ala Thr Pro  
20 25 30

Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu  
35 40 45

Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys  
50 55 60

Leu Val Ser Glu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu  
65 70 75 80

Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser  
85 90 95

Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His  
100 105 110

Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile  
115 120 125

Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala  
130 135 140

Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala  
145 150 155 160

Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala  
165 170 175

Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser  
180 185 190

Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
195 200 205

<210> 29

<211> 208

<212> PRT

<213> Mus musculus

<400> 29

Met Ala Gln Leu Ser Ala Gln Arg Arg Met Lys Leu Met Ala Leu Gln  
1 5 10 15

Leu Leu Leu Trp Gln Ser Ala Leu Trp Ser Gly Arg Glu Ala Val Pro  
20 25 30

Leu Val Thr Val Ser Ala Leu Pro Pro Ser Leu Pro Leu Pro Arg Ser  
35 40 45

Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Ala Ser Gly  
50 55 60

Ser Val Leu Leu Glu Gln Leu Cys Ala Thr Tyr Lys Leu Cys His Pro  
65 70 75 80

Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Lys Ala Ser  
85 90 95

Leu Ser Gly Cys Ser Ser Gln Ala Leu Gln Gln Thr Gln Cys Leu Ser  
100 105 110

Gln Leu His Ser Gly Leu Cys Leu Tyr Gln Gly Leu Leu Gln Ala Leu  
115 120 125

Ser Gly Ile Ser Pro Ala Leu Ala Pro Thr Leu Asp Leu Leu Gln Leu  
130 135 140

Asp Val Ala Asn Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Asn Leu  
145 150 155 160

Gly Val Ala Pro Thr Val Gln Pro Thr Gln Ser Ala Met Pro Ala Phe  
165 170 175

Thr Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Ala Ile Ser Tyr  
180 185 190

Leu Gln Gly Phe Leu Glu Thr Ala Arg Leu Ala Leu His His Leu Ala  
195 200 205

<210> 30  
<211> 214  
<212> PRT  
<213> Rattus norvegicus

<400> 30

Met Lys Leu Met Ala Leu Gln Leu Leu Leu Trp His Ser Ala Leu Trp  
1 5 10 15

Ser Gly Gln Glu Ala Ile Pro Leu Leu Thr Val Ser Ser Leu Pro Pro  
20 25 30

Ser Leu Pro Leu Pro Arg Ser Phe Leu Leu Lys Ser Leu Glu Gln Val  
35 40 45

Arg Lys Ile Gln Ala Arg Asn Thr Glu Leu Leu Glu Gln Leu Cys Ala  
50 55 60

Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Phe Gly His Ser  
65 70 75 80

Leu Gly Ile Pro Lys Ala Ser Leu Ser Ser Cys Ser Ser Gln Ala Leu  
85 90 95

Gln Gln Thr Lys Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr  
100 105 110

Gln Gly Leu Leu Gln Ala Leu Ala Gly Ile Ser Ser Glu Leu Ala Pro  
115 120 125

Thr Leu Asp Met Leu His Leu Asp Val Asp Asn Phe Ala Thr Thr Ile  
130 135 140

Trp Gln Gln Met Glu Ser Leu Gly Val Ala Pro Thr Val Gln Pro Thr  
145 150 155 160

Gln Ser Thr Met Pro Ile Phe Thr Ser Ala Phe Gln Arg Arg Ala Gly  
165 170 175

Gly Val Leu Val Thr Ser Tyr Leu Gln Ser Phe Leu Glu Thr Ala His  
180 185 190

His Ala Leu His His Leu Pro Arg Pro Ala Gln Lys His Phe Pro Glu  
195 200 205

Ser Leu Phe Ile Ser Ile  
210

<210> 31  
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<212> PRT  
<213> Felis catus

<400> 31

Met Lys Leu Thr Ala Leu Gln Leu Leu Leu Trp His Ser Ala Leu Trp  
1 5 10 15

Met Val Gln Glu Ala Thr Pro Leu Gly Pro Thr Ser Ser Leu Pro Gln  
20 25 30

Ser Phe Leu Leu Lys Cys Leu Glu Gln Val Arg Lys Val Gln Ala Asp  
35 40 45

Gly Thr Ala Leu Gln Glu Arg Leu Cys Ala Ala His Lys Leu Cys His  
50 55 60

Pro Glu Glu Leu Val Leu Leu Gly His Ala Leu Gly Ile Pro Gln Ala  
65 70 75 80

Pro Leu Ser Ser Cys Ser Ser Gln Ala Leu Gln Leu Thr Gly Cys Leu  
85 90 95

Arg Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala  
100 105 110

Leu Ala Gly Ile Ser Pro Glu Leu Ala Pro Thr Leu Asp Met Leu Gln  
115 120 125

Leu Asp Ile Thr Asp Phe Ala Ile Asn Ile Trp Gln Gln Met Glu Asp  
130 135 140

Val Gly Met Ala Pro Ala Val Pro Pro Thr Gln Gly Thr Met Pro Thr  
145 150 155 160

Phe Thr Ser Ala Phe Gln Arg Arg Ala Gly Gly Thr Leu Val Ala Ser  
165 170 175

Asn Leu Gln Ser Phe Leu Glu Val Ala Tyr Arg Ala Leu Arg His Phe  
180 185 190

Thr Lys Pro  
195

<210> 32  
<211> 195  
<212> PRT  
<213> Bos taurus

<400> 32

Met Lys Leu Met Val Leu Gln Leu Leu Leu Trp His Ser Ala Leu Trp  
1 5 10 15

Thr Val His Glu Ala Thr Pro Leu Gly Pro Ala Arg Ser Leu Pro Gln  
20 25 30

Ser Phe Leu Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Ala Asp  
35 40 45

Gly Ala Glu Leu Gln Glu Arg Leu Cys Ala Ala His Lys Leu Cys His  
50 55 60

Pro Glu Glu Leu Met Leu Leu Arg His Ser Leu Gly Ile Pro Gln Ala  
65 70 75 80

Pro Leu Ser Ser Cys Ser Ser Gln Ser Leu Gln Leu Thr Ser Cys Leu  
85 90 95

Asn Gln Leu His Gly Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala  
100 105 110

Leu Ala Gly Ile Ser Pro Glu Leu Ala Pro Thr Leu Asp Thr Leu Gln  
115 120 125

Leu Asp Val Thr Asp Phe Ala Thr Asn Ile Trp Leu Gln Met Glu Asp  
130 135 140

Leu Gly Ala Ala Pro Ala Val Gln Pro Thr Gln Gly Ala Met Pro Thr  
145 150 155 160

Phe Thr Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser  
165 170 175

Gln Leu His Arg Phe Leu Glu Leu Ala Tyr Arg Gly Leu Arg Tyr Leu  
180 185 190

Ala Glu Pro  
195

<210> 33  
<211> 195  
<212> PRT  
<213> Sus scrofa

<400> 33

Met Lys Leu Met Ala Leu Gln Leu Leu Leu Trp His Ile Ala Leu Trp  
1 5 10 15

Met Val Pro Glu Ala Ala Pro Leu Ser Pro Ala Ser Ser Leu Pro Gln  
20 25 30

Ser Phe Leu Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Ala Asp  
35 40 45

Gly Ala Glu Leu Gln Glu Arg Leu Cys Ala Thr His Lys Leu Cys His  
50 55 60

Pro Gln Glu Leu Val Leu Leu Gly His Ser Leu Gly Leu Pro Gln Ala  
65 70 75 80

Ser Leu Ser Ser Cys Ser Ser Gln Ala Leu Gln Leu Thr Gly Cys Leu  
85 90 95

Asn Gln Leu His Gly Gly Leu Val Leu Tyr Gln Gly Leu Leu Gln Ala  
100 105 110

Leu Ala Gly Ile Ser Pro Glu Leu Ala Pro Ala Leu Asp Ile Leu Gln  
115 120 125

Leu Asp Val Thr Asp Leu Ala Thr Asn Ile Trp Leu Gln Met Glu Asp  
130 135 140

Leu Arg Met Ala Pro Ala Ser Leu Pro Thr Gln Gly Thr Val Pro Thr  
145 150 155 160

Phe Thr Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Val Ser  
165 170 175

Gln Leu Gln Ser Phe Leu Glu Leu Ala Tyr Arg Val Leu Arg Tyr Leu  
180 185 190

Ala Glu Pro  
195

<210> 34  
<211> 836  
<212> PRT  
<213> Homo sapiens

<400> 34

Met Ala Arg Leu Gly Asn Cys Ser Leu Thr Trp Ala Ala Leu Ile Ile  
1 5 10 15

Leu Leu Leu Pro Gly Ser Leu Glu Glu Cys Gly His Ile Ser Val Ser  
20 25 30

Ala Pro Ile Val His Leu Gly Asp Pro Ile Thr Ala Ser Cys Ile Ile  
35 40 45

Lys Gln Asn Cys Ser His Leu Asp Pro Glu Pro Gln Ile Leu Trp Arg  
50 55 60

Leu Gly Ala Glu Leu Gln Pro Gly Gly Arg Gln Gln Arg Leu Ser Asp  
65 70 75 80

Gly Thr Gln Glu Ser Ile Ile Thr Leu Pro His Leu Asn His Thr Gln  
85 90 95

Ala Phe Leu Ser Cys Cys Leu Asn Trp Gly Asn Ser Leu Gln Ile Leu  
100 105 110

Asp Gln Val Glu Leu Arg Ala Gly Tyr Pro Pro Ala Ile Pro His Asn  
115 120 125

Leu Ser Cys Leu Met Asn Leu Thr Thr Ser Ser Leu Ile Cys Gln Trp  
130 135 140

Glu Pro Gly Pro Glu Thr His Leu Pro Thr Ser Phe Thr Leu Lys Ser  
145 150 155 160

Phe Lys Ser Arg Gly Asn Cys Gln Thr Gln Gly Asp Ser Ile Leu Asp  
165 170 175

Cys Val Pro Lys Asp Gly Gln Ser His Cys Cys Ile Pro Arg Lys His  
180 185 190

Leu Leu Leu Tyr Gln Asn Met Gly Ile Trp Val Gln Ala Glu Asn Ala  
195 200 205

Leu Gly Thr Ser Met Ser Pro Gln Leu Cys Leu Asp Pro Met Asp Val  
210 215 220

Val Lys Leu Glu Pro Pro Met Leu Arg Thr Met Asp Pro Ser Pro Glu  
225 230 235 240

Ala Ala Pro Pro Gln Ala Gly Cys Leu Gln Leu Cys Trp Glu Pro Trp  
245 250 255

Gln Pro Gly Leu His Ile Asn Gln Lys Cys Glu Leu Arg His Lys Pro

260

265

270

Gln Arg Gly Glu Ala Ser Trp Ala Leu Val Gly Pro Leu Pro Leu Glu  
 275                    280                    285

Ala Leu Gln Tyr Glu Leu Cys Gly Leu Leu Pro Ala Thr Ala Tyr Thr  
 290                    295                    300

Leu Gln Ile Arg Cys Ile Arg Trp Pro Leu Pro Gly His Trp Ser Asp  
 305                    310                    315                    320

Trp Ser Pro Ser Leu Glu Leu Arg Thr Thr Glu Arg Ala Pro Thr Val  
 325                    330                    335

Arg Leu Asp Thr Trp Trp Arg Gln Arg Gln Leu Asp Pro Arg Thr Val  
 340                    345                    350

Gln Leu Phe Trp Lys Pro Val Pro Leu Glu Glu Asp Ser Gly Arg Ile  
 355                    360                    365

Gln Gly Tyr Val Val Ser Trp Arg Pro Ser Gly Gln Ala Gly Ala Ile  
 370                    375                    380

Leu Pro Leu Cys Asn Thr Thr Glu Leu Ser Cys Thr Phe His Leu Pro  
 385                    390                    395                    400

Ser Glu Ala Gln Glu Val Ala Leu Val Ala Tyr Asn Ser Ala Gly Thr  
 405                    410                    415

Ser Arg Pro Thr Pro Val Val Phe Ser Glu Ser Arg Gly Pro Ala Leu  
 420                    425                    430

Thr Arg Leu His Ala Met Ala Arg Asp Pro His Ser Leu Trp Val Gly  
 435                    440                    445

Trp Glu Pro Pro Asn Pro Trp Pro Gln Gly Tyr Val Ile Glu Trp Gly  
 450                    455                    460

Leu Gly Pro Pro Ser Ala Ser Asn Ser Asn Lys Thr Trp Arg Met Glu  
 465                    470                    475                    480

Gln Asn Gly Arg Ala Thr Gly Phe Leu Leu Lys Glu Asn Ile Arg Pro  
 485                    490                    495

Phe Gln Leu Tyr Glu Ile Ile Val Thr Pro Leu Tyr Gln Asp Thr Met  
500 505 510

Gly Pro Ser Gln His Val Tyr Ala Tyr Ser Gln Glu Met Ala Pro Ser  
515 520 525

His Ala Pro Glu Leu His Leu Lys His Ile Gly Lys Thr Trp Ala Gln  
530 535 540

Leu Glu Trp Val Pro Glu Pro Pro Glu Leu Gly Lys Ser Pro Leu Thr  
545 550 555 560

His Tyr Thr Ile Phe Trp Thr Asn Ala Gln Asn Gln Ser Phe Ser Ala  
565 570 575

Ile Leu Asn Ala Ser Ser Arg Gly Phe Val Leu His Gly Leu Glu Pro  
580 585 590

Ala Ser Leu Tyr His Ile His Leu Met Ala Ala Ser Gln Ala Gly Ala  
595 600 605

Thr Asn Ser Thr Val Leu Thr Leu Met Thr Leu Thr Pro Glu Gly Ser  
610 615 620

Glu Leu His Ile Ile Leu Gly Leu Phe Gly Leu Leu Leu Leu Leu Thr  
625 630 635 640

Cys Leu Cys Gly Thr Ala Trp Leu Cys Cys Ser Pro Asn Arg Lys Asn  
645 650 655

Pro Leu Trp Pro Ser Val Pro Asp Pro Ala His Ser Ser Leu Gly Ser  
660 665 670

Trp Val Pro Thr Ile Met Glu Glu Asp Ala Phe Gln Leu Pro Gly Leu  
675 680 685

Gly Thr Pro Pro Ile Thr Lys Leu Thr Val Leu Glu Glu Asp Glu Lys  
690 695 700

Lys Pro Val Pro Trp Glu Ser His Asn Ser Ser Glu Thr Cys Gly Leu  
705 710 715 720

Pro Thr Leu Val Gln Thr Tyr Val Leu Gln Gly Asp Pro Arg Ala Val  
725 730 735

Ser Thr Gln Pro Gln Ser Gln Ser Gly Thr Ser Asp Gln Val Leu Tyr  
740 745 750

Gly Gln Leu Leu Gly Ser Pro Thr Ser Pro Gly Pro Gly His Tyr Leu  
755 760 765

Arg Cys Asp Ser Thr Gln Pro Leu Leu Ala Gly Leu Thr Pro Ser Pro  
770 775 780

Lys Ser Tyr Glu Asn Leu Trp Phe Gln Ala Ser Pro Leu Gly Thr Leu  
785 790 795 800

Val Thr Pro Ala Pro Ser Gln Glu Asp Asp Cys Val Phe Gly Pro Leu  
805 810 815

Leu Asn Phe Pro Leu Leu Gln Gly Ile Arg Val His Gly Met Glu Ala  
820 825 830

Leu Gly Ser Phe  
835

<210> 35  
<211> 837  
<212> PRT  
<213> Mus musculus

<400> 35

Met Val Gly Leu Gly Ala Cys Thr Leu Thr Gly Val Thr Leu Ile Phe  
1 5 10 15

Leu Leu Leu Pro Arg Ser Leu Glu Ser Cys Gly His Ile Glu Ile Ser  
20 25 30

Pro Pro Val Val Arg Leu Gly Asp Pro Val Leu Ala Ser Cys Thr Ile  
35 40 45

Ser Pro Asn Cys Ser Lys Leu Asp Gln Gln Ala Lys Ile Leu Trp Arg  
50 55 60

Leu Gln Asp Glu Pro Ile Gln Pro Gly Asp Arg Gln His His Leu Pro

65	70	75	80
Asp Gly Thr Gln Glu Ser Leu Ile Thr Leu Pro His Leu Asn Tyr Thr			
85	90	95	
Gln Ala Phe Leu Phe Cys Leu Val Pro Trp Glu Asp Ser Val Gln Leu			
100	105	110	
Leu Asp Gln Ala Glu Leu His Ala Gly Tyr Pro Pro Ala Ser Pro Ser			
115	120	125	
Asn Leu Ser Cys Leu Met His Leu Thr Thr Asn Ser Leu Val Cys Gln			
130	135	140	
Trp Glu Pro Gly Pro Glu Thr His Leu Pro Thr Ser Phe Ile Leu Lys			
145	150	155	160
Ser Phe Arg Ser Arg Ala Asp Cys Gln Tyr Gln Gly Asp Thr Ile Pro			
165	170	175	
Asp Cys Val Ala Lys Lys Arg Gln Asn Asn Cys Ser Ile Pro Arg Lys			
180	185	190	
Asn Leu Leu Leu Tyr Gln Tyr Met Ala Ile Trp Val Gln Ala Glu Asn			
195	200	205	
Met Leu Gly Ser Ser Glu Ser Pro Lys Leu Cys Leu Asp Pro Met Asp			
210	215	220	
Val Val Lys Leu Glu Pro Pro Met Leu Gln Ala Leu Asp Ile Gly Pro			
225	230	235	240
Asp Val Val Ser His Gln Pro Gly Cys Leu Trp Leu Ser Trp Lys Pro			
245	250	255	
Trp Lys Pro Ser Glu Tyr Met Glu Gln Glu Cys Glu Leu Arg Tyr Gln			
260	265	270	
Pro Gln Leu Lys Gly Ala Asn Trp Thr Leu Val Phe His Leu Pro Ser			
275	280	285	
Ser Lys Asp Gln Phe Glu Leu Cys Gly Leu His Gln Ala Pro Val Tyr			
290	295	300	

Thr Leu Gln Met Arg Cys Ile Arg Ser Ser Leu Pro Gly Phe Trp Ser  
305 310 315 320

Pro Trp Ser Pro Gly Leu Gln Leu Arg Pro Thr Met Lys Ala Pro Thr  
325 330 335

Ile Arg Leu Asp Thr Trp Cys Gln Lys Lys Gln Leu Asp Pro Gly Thr  
340 345 350

Val Ser Val Gln Leu Phe Trp Lys Pro Thr Pro Leu Gln Glu Asp Ser  
355 360 365

Gly Gln Ile Gln Gly Tyr Leu Leu Ser Trp Asn Ser Pro Asp His Gln  
370 375 380

Gly Gln Asp Ile His Leu Cys Asn Thr Thr Gln Leu Ser Cys Ile Phe  
385 390 395 400

Leu Leu Pro Ser Glu Ala Gln Asn Val Thr Leu Val Ala Tyr Asn Lys  
405 410 415

Ala Gly Thr Ser Ser Pro Thr Thr Val Val Phe Leu Glu Asn Glu Gly  
420 425 430

Pro Ala Val Thr Gly Leu His Ala Met Ala Gln Asp Leu Asn Thr Ile  
435 440 445

Trp Val Asp Trp Glu Ala Pro Ser Leu Leu Pro Gln Gly Tyr Leu Ile  
450 455 460

Glu Trp Glu Met Ser Ser Pro Ser Tyr Asn Asn Ser Tyr Lys Ser Trp  
465 470 475 480

Met Ile Glu Pro Asn Gly Asn Ile Thr Gly Ile Leu Leu Lys Asp Asn  
485 490 495

Ile Asn Pro Phe Gln Leu Tyr Arg Ile Thr Val Ala Pro Leu Tyr Pro  
500 505 510

Gly Ile Val Gly Pro Pro Val Asn Val Tyr Thr Phe Ala Gly Glu Arg  
515 520 525

Ala Pro Pro His Ala Pro Ala Leu His Leu Lys His Val Gly Thr Thr  
530 535 540

Trp Ala Gln Leu Glu Trp Val Pro Glu Ala Pro Arg Leu Gly Met Ile  
545 550 555 560

Pro Leu Thr His Tyr Thr Ile Phe Trp Ala Asp Ala Gly Asp His Ser  
565 570 575

Phe Ser Val Thr Leu Asn Ile Ser Leu His Asp Phe Val Leu Lys His  
580 585 590

Leu Glu Pro Ala Ser Leu Tyr His Val Tyr Leu Met Ala Thr Ser Arg  
595 600 605

Ala Gly Ser Thr Asn Ser Thr Gly Leu Thr Leu Arg Thr Leu Asp Pro  
610 615 620

Ser Asp Leu Asn Ile Phe Leu Gly Ile Leu Cys Leu Val Leu Leu Ser  
625 630 635 640

Thr Thr Cys Val Val Thr Trp Leu Cys Cys Lys Arg Arg Gly Lys Thr  
645 650 655

Ser Phe Trp Ser Asp Val Pro Asp Pro Ala His Ser Ser Leu Ser Ser  
660 665 670

Trp Leu Pro Thr Ile Met Thr Glu Glu Thr Phe Gln Leu Pro Ser Phe  
675 680 685

Trp Asp Ser Ser Val Pro Ser Ile Thr Lys Ile Thr Glu Leu Glu Glu  
690 695 700

Asp Lys Lys Pro Thr His Trp Asp Ser Glu Ser Ser Gly Asn Gly Ser  
705 710 715 720

Leu Pro Ala Leu Val Gln Ala Tyr Val Leu Gln Gly Asp Pro Arg Glu  
725 730 735

Ile Ser Asn Gln Ser Gln Pro Pro Ser Arg Thr Gly Asp Gln Val Leu  
740 745 750

Tyr Gly Gln Val Leu Glu Ser Pro Thr Ser Pro Gly Val Met Gln Tyr  
755 760 765

Ile Arg Ser Asp Ser Thr Gln Pro Leu Leu Gly Gly Pro Thr Pro Ser  
770 775 780

Pro Lys Ser Tyr Glu Asn Ile Trp Phe His Ser Arg Pro Gln Glu Thr  
785 790 795 800

Phe Val Pro Gln Pro Pro Asn Gln Glu Asp Asp Cys Val Phe Gly Pro  
805 810 815

Pro Phe Asp Phe Pro Leu Phe Gln Gly Leu Gln Val His Gly Val Glu  
820 825 830

Glu Gln Gly Gly Phe  
835

<210> 36  
<211> 112  
<212> PRT  
<213> Rattus rattus

<400> 36

Leu Glu Gly Cys Gly Gln Ile Arg Ile Ser Pro Pro Ile Val His Leu  
1 5 10 15

Gly Asp Pro Val Leu Ala Ser Cys Thr Ile Ser Pro Asn Cys Ser Lys  
20 25 30

Leu Asp Arg Gln Pro Lys Ile Leu Trp Arg Leu Gln Asp Glu Pro Asn  
35 40 45

Gln Pro Gly Asp Arg Gln His His Leu Pro Asp Gly Ser Gln Glu Ser  
50 55 60

Ile Ile Thr Leu Pro His Leu Asn Tyr Thr Gln Ala Phe Leu Phe Cys  
65 70 75 80

Leu Val Pro Trp Asn Asn Ser Phe Gln Val Leu Asp Gln Ala Glu Leu  
85 90 95

Arg Ala Gly Cys Lys Ser Leu Gln Pro Pro Thr His Leu Leu Gln Cys  
100 105 110

<210> 37  
<211> 174  
<212> PRT  
<213> Homo sapiens

<400> 37

Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys  
1 5 10 15

Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln  
20 25 30

Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val  
35 40 45

Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys  
50 55 60

Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser  
65 70 75 80

Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser  
85 90 95

Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp  
100 105 110

Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro  
115 120 125

Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe  
130 135 140

Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe  
145 150 155 160

Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
165 170

<210> 38  
<211> 175  
<212> PRT  
<213> Homo sapiens

<400> 38

Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu  
1 5 10 15

Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu  
20 25 30

Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu  
35 40 45

Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser  
50 55 60

Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His  
65 70 75 80

Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile  
85 90 95

Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala  
100 105 110

Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala  
115 120 125

Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala  
130 135 140

Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser  
145 150 155 160

Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro  
165 170 175

<210> 39

<211> 177

<212> PRT

<213> Homo sapiens

<400> 39

Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys  
1 5 10 15

Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln  
20 25 30

Glu Lys Leu Val Ser Glu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu  
35 40 45

Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu  
50 55 60

Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln  
65 70 75 80

Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu  
85 90 95

Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp  
100 105 110

Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly  
115 120 125

Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala  
130 135 140

Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu  
145 150 155 160

Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln  
165 170 175

Pro

<210> 40  
<211> 1155  
<212> DNA  
<213> Rattus rattus

<400> 40  
atgagcatca ttccccctgcc tcagctcctc gccctgtct gctgctgcgg acttgctgct 60  
gctactcagg gccccacaga cccgtccacg cccccctaacc tgggcctcgc ccacttccac 120  
aacctgacct tcgacccccgg gacctggaca ctgagctggg cctgtggcgg ccatgatggg 180

gcagtatgt	cgtgcacgg	gattgaccag	gaggcaggga	tccggcgag	agtgcggtcc	240
cggggctgcc	gctgccgg	tttcagccaatg	gagttacacc	gcggggtcga	cctggagg	300
gcggggaca	aaggccatgc	ccaaagtccat	cagactctgc	gcttcgagaa	tgaagggtgcc	360
ccaggctccg	gggcagagaa	cctgacctgt	gagatccttg	ctgcccactt	cctgtgctgt	420
tattggcgg	tggggccggc	tgcacccgat	gacatcagat	actca	ctgcg	480
gccactggc	atgagg	tcgc	cagctgctcc	gctgcccc	gaaccccacc	540
caggctgatg	atctcacaca	tctgcccc	ctcgcat	ac	tcgtcg	600
cgacggggc	tgg	tggtgcgg	cctggatg	gtgg	taaca	660
ggtcccc	ataacgt	tc	tgcctc	c	acttctcc	720
ccgcccc	cctgg	gc	tatgacgg	caggatt	cc	780
aaggcggagc	ccagcag	cat	tgcccaga	gtgg	ttatcg	840
ttcgccttcc	ccagcccc	gc	ccccgtgg	cgcct	ctgg	900
acacgcagt	atcggtgg	g	cgactgg	cccgc	cctgg	960
accccgccgc	gggc	cctgg	gttgg	cg	tcgagctgt	1020
gcactgggg	cggc	cctgc	gagactcg	ctct	cacg	1080
gggatccggg	accgcgt	tatc	tgatgacg	cgtgt	caact	1140
ctgctgcggc	cctag					1155

<210> 41  
 <211> 384  
 <212> PRT  
 <213> Rattus rattus  
  
 <400> 41

Met Ser Ile Ile Pro Leu Pro Gln Leu Leu Ala Leu Leu Cys Cys Cys  
 1 5 10 15

Gly Leu Ala Ala Ala Thr Gln Gly Pro Thr Asp Pro Ser Thr Pro Pro  
 20 25 30

Asn Leu Gly Leu Ala His Phe His Asn Leu Thr Phe Asp Pro Gly Thr  
 35 40 45

Trp Thr Leu Ser Trp Ala Cys Gly Gly His Asp Gly Ala Val Met Ser  
 50 55 60

Cys Thr Val Ile Asp Gln Glu Ala Gly Ile Arg Arg Arg Val Arg Ser  
65 70 75 80

Arg Gly Cys Arg Cys Arg Phe Gln Pro Met Glu Leu His Arg Gly Val  
85 90 95

Asp Leu Glu Val Ala Gly Asp Lys Gly His Ala Gln Val His Gln Thr  
100 105 110

Leu Arg Phe Glu Asn Glu Gly Ala Pro Gly Ser Gly Ala Glu Asn Leu  
115 120 125

Thr Cys Glu Ile Leu Ala Ala His Phe Leu Cys Cys Tyr Trp Ala Val  
130 135 140

Gly Pro Ala Ala Pro Asp Asp Ile Arg Tyr Ser Leu Arg Val Leu Asn  
145 150 155 160

Ala Thr Gly His Glu Val Ala Ser Cys Ser Ala Ala Pro Gly Thr Pro  
165 170 175

Pro Thr Arg Cys Gln Ala Asp Asp Leu Thr His Leu Pro Arg Leu Ala  
180 185 190

Tyr Ile Val Val Thr Gly Gln Ser Arg Thr Gly Leu Val Arg Phe Leu  
195 200 205

Asp Ala Val Val Asn Thr Lys Gly Ile Glu Arg Leu Gly Pro Pro Asp  
210 215 220

Asn Val Ser Ala Ser Cys Asn Phe Ser His Cys Thr Ile Thr Trp Ala  
225 230 235 240

Pro Pro Pro Thr Trp Ala Pro Met Thr Glu Gln Asp Phe Arg Phe Glu  
245 250 255

Ile Glu Trp Lys Lys Ala Glu Pro Ser Ser Ile Ala Gln Lys Val Val  
260 265 270

Ile Ala Gly Arg Glu Asp Asn Ala Phe Ala Phe Pro Ser Pro Ala Pro  
275 280 285

Arg Gly Arg Leu Trp Val Arg Val Arg Ala Gly Asp Thr Arg Ser Asp  
290 295 300

Arg Trp Ser Asp Trp Ser Pro Ala Leu Glu Leu Gly Ser Glu Ala Thr  
305 310 315 320

Thr Pro Pro Arg Ala Leu Val Leu Ala Ala Ser Ser Cys Ala Ala Leu  
325 330 335

Leu Cys Ala Leu Ala Leu Gly Ala Ala Cys Arg Arg Leu Ala Leu Ser  
340 345 350

Arg Arg Leu Leu Pro Pro Ile Pro Gly Ile Arg Asp Arg Val Ser Asp  
355 360 365

Asp Glu Arg Val Asn Ser Glu Thr Leu Arg Lys Asp Leu Leu Arg Pro  
370 375 380